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Road user and obstacle detecting method for camera-based precrash detection system of vehicle, involves marking and ranging identified image regions, and type-classifying the image regions

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FR 2809360 A1 20011130 FR 20016801 A 20010523 200231

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Abstract (Basic): US 20010045981 A1

NOVELTY - The method involves identifying regions within a two-dimensional camera image, that is not resolved with respect to distance, by using classifying unit (2) designed for detecting road users and obstacles. The identified regions are marked and ranged using a distance sensor (3) with respect to regions' distance from observer.

The identified regions are type classified using a type classifier (5).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a road user and obstacles detection device.

USE - For camera-based precrash detection system of vehicle.

ADVANTAGE - Enables reliable detection and classification of road users based on camera images.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of detection device.

Classifying unit (2)

Distance sensor (3)

Type classifier (5)

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Title Terms: ROAD; USER; OBSTACLE; DETECT; METHOD; CAMERA; BASED; DETECT; SYSTEM; VEHICLE; MARK; RANGING; IDENTIFY; IMAGE; REGION; TYPE; CLASSIFY; IMAGE; REGION

Derwent Class: Q16; Q17; W02; W03; X22

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